

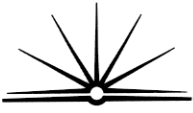


a) The most suitable software development approach for the railway system would be a structured approach. The reasons for this approach is due to the tasks that the system will required to do. The system must be reliable all the time and capable of handling peak traffic loads. A structured approach will ensure the system is thoroughly tested & capable of handling such loads, and reliable enough with minimal error. Detail documentation would be required and is provide through this approach.

b) ~~Two~~ Two key factors to be considered in the technical feasibility of the system is that the Hardware required for the tasks is available and if Programming languages are available for the regular updating & changes.

Since the system will be under constant change with different time tables ~~for diffe~~ possible ticket price increases and track maintenance will require the technology of a language that can easily be modified or created to handle the changes and the tasks required

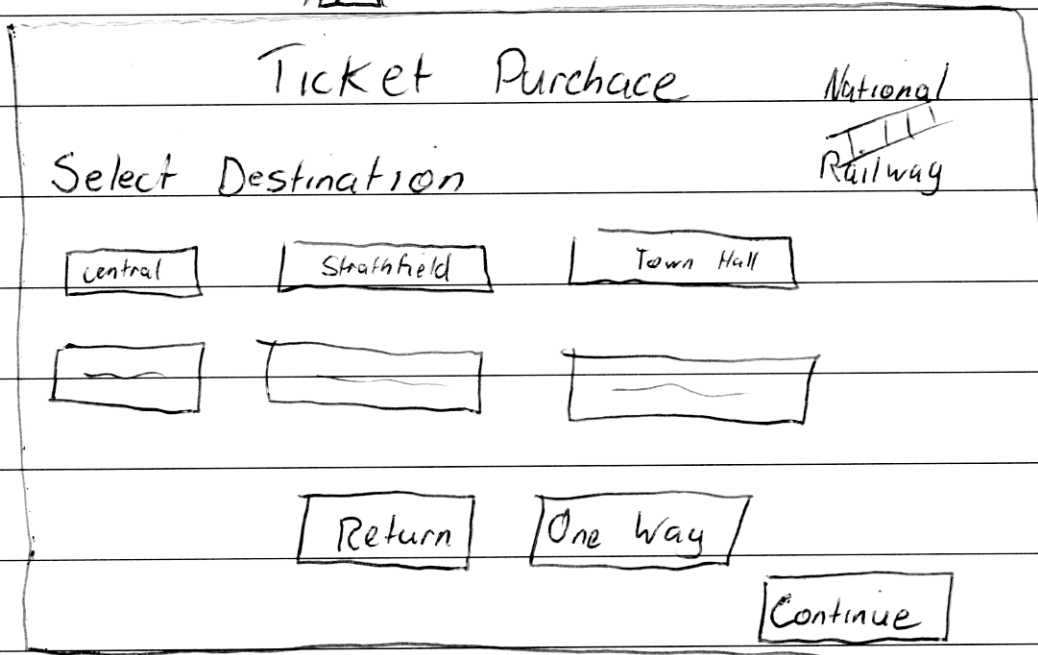
Pto.



b continued

When assess the technical feasibility the availability of hardware required for the task must be carried out to determine if the solution will have the hardware requirements required to be feasible. Hardware needs to be found to combine cash & credit card vending machines with touch screen displays.

c)



PTO



~~Purchase~~

Ticket Purchase

National
~~III~~
Railway

Select ticket Type then pres + or -
to increase amount

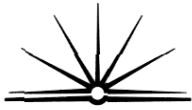
Amount

Ticket Price \$:

ii)

National
~~III~~
Railway

~~Main Menu~~



d) One group of travellers who would have a major problem in using touch screens would be visually impaired people who could not view the screen.

This problem can be resolved by providing Audio instructions to the user given an Audio confirmation on what has been selected and what is about to happen.

The setup of even a system dedicated to visually impaired people could have unique feel buttons with Audio highlight the keys by feel.

e) BEGIN TICKET PURCHASE

Get User Dest
Found Station = False
Index = 0

~~REPEAT~~ REPEAT

~~destination~~ IF destination(index).station = UserDest THEN

Min Price ~~At~~ Single = destination(index).full single

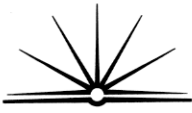
Price ~~At~~ Return = destination(index).full return

Found Station = True

END IF

Index = Index + 1

UNTIL Found Station = True OR Index = 99



e continued

~~MOBIL~~ Error

Get Num Single

Get Num Return

~~Total Fare = Num Single x Price Single~~

Single Total = 0

Single Total = Num Single x Price Single

Return Total = 0

Return Total = Num Return x Price Return

Total Fare = Single Total + Return Total

Print Total Fare

~~IF confirmed~~

Confirmation = False

IF confirmation = True THEN

TRANSACTION

END IF

END TICKET PURCHASE